

ESF-FENS The Brain Conferences

The Neurobiology of Action



All of our actions depend on networks in the nervous system. Some of these emerge through the activity of circuits specialised for behaviours conserved across the animal kingdom, while other organising patterns emerge through forms of learning and extend to cognitive behaviour. This conference will explore this range of neural control and pose critical questions about levels and mechanisms and principles of dynamic control.

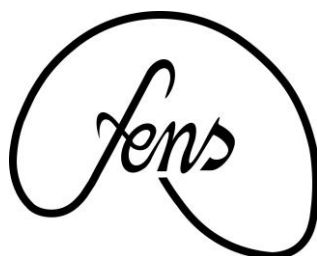
The conference is organised by the **European Science Foundation (ESF)** in partnership with the **Federation of European Neuroscience Societies (FENS)**.

Closing date for applications: 4 August 2013

Grants available

Further information about **how to apply, grants and fees** can be found below and at www.esf.org/action

Please circulate this announcement among your colleagues and contacts



The Neurobiology of Action

20-24 October 2013 - Hotel La Palma, Stresa, Italy

Chaired by:

Sten Grillner, Karolinska Institute, Stockholm, SE
Ann Graybiel, MIT, Cambridge, US

Programme

ESF-FENS The Brain Conferences - *The Neurobiology of Action* is part of a series of high-level meetings on the neurosciences in Europe. Co-organised by the European Science Foundation (ESF) and the Federation of European Neuroscience Societies (FENS), these biennial conferences will focus on emerging and strategically important topics within the fields of Neuroscience, Brain, Dynamic Networks, Molecular Neurobiology, Neurogenomics and Cognition. They will bring together outstanding researchers in key broadly defined areas of contemporary neuroscience to discuss current concepts and define challenges for future research. [\[More\]](#)

Brain Conferences Committee:

T. Bonhoeffer, P. Caroni, O. Kiehn, R.G.M. Morris, J. Syka

Invited speakers and talks will include

The Neural Underpinnings of Specific Patterns of Behaviour

L. Swanson, University of Southern California, US | **A. El Manira**, Karolinska Institute, Sweden | **S. Arber**, Friedrich Miescher Institute, Switzerland | **O. Kiehn**, Karolinska Institute, Sweden | **J. Feldman**, UCLA, US | **F. Hirth**, King's College London, UK | **N. Strausfeld**, University of Arizona, US | **C. Bargmann**, Rockefeller University, US

Spatial Navigation, Role of Hippocampal/Entorhinal Circuits

E. Moser, NTNU, Trondheim, Norway | **M-B. Moser**, NTNU, Trondheim, Norway

The Basal Ganglia - Habenulae Complex

A.M. Graybiel, MIT, US | **P. Bolam**, Oxford University, UK | **A. Kreitzer**, UCSF, US | **M. Kimura**, Tamagawa University, Japan | **R. Costa**, Champalimaud Institute, Portugal | **S. Grillner**, Karolinska Institute, Sweden | **A. Reiner**, University of Tennessee, US | **P. Redgrave**, University of Sheffield, UK | **R. Malinow**, UCSD, US | **R. Malenka**, Stanford University, US | **M. Brainard**, UCSF, US | **J. Goldberg**, Cornell University, US

Role of Pallidum/Cortex in The Control of Action

A. Schwartz, University of Minnesota, US | **C. Petersen**, EPFL | **E. Fetz**, University of Washington

Role of Cerebellum in Action

H. Jörntell, Lund University, Sweden | **M. Schnitzer**, Stanford University, US

Robots in Action

M. Kawato, ATR, Japan

How to Participate

Attendance is possible only after successful application. The **online application form** is accessible from www.esf.org/action

A certain number of grants are available for students and early stage researchers to cover the conference fee and possibly part of the travel costs.

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Sponsor a Conference

This conference will provide the opportunity for leading scientists and young researchers to meet for discussions on the most recent developments in their fields of research. We enable collaboration between international scientists from the EU, first world and emerging countries which acts as a catalyst for creating new synergistic global contacts across disciplines.

We invite you to join us in harnessing this great potential, working towards an even more cohesive scientific force in Europe and beyond by contributing to our intense, dynamic and fun events. If you are interested, please visit our Sponsor Resource Center page: <http://www.esf.org/serving-science/conferences/sponsor-resource-center.html>